

Abstract

A reversible hydrogen storage alloy capable of storing large amounts of hydrogen and delivering reversibly large amounts of hydrogen at temperatures ranging from 0°C up to 40°C. The hydrogen storage alloy is generally composed of titanium, vanadium, and chromium. The alloy may further include manganese. Modifier elements such as zirconium, iron, nickel, molybdenum, ruthenium, and/or cobalt, and scavenger elements such as misch metal, calcium, and/or magnesium may be included in the alloy to improve performance.